CONESTOGA-ROVERS
& ASSOCIATES

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September 7, 2012 Reference No. 056394

Ms. Sheila Desai
Remedial Project Manager
U.S. Environmental Protection Agency - Region V
77 West Jackson Boulevard (SR-6J)
Chicago, Illinois 60604-3590

Dear Ms. Desai:

Re: Monthly Progress Report - August 2012
Former Plainwell, Inc. Mill Property Operable Unit No. 7
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Allegan and Kalamazoo County

As required by Task 8, Progress Reports in the Statement of Work of the Remedial Investigation and Feasibility Study (RI/FS) at the former Plainwell, Inc. Mill Property, please find attached three copies of the Progress Report No. 70 for the period of August 1, 2012 through August 31, 2012.

Should you have any questions or require any additional information, please do not hesitate to contact the undersigned.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Jennifer L. Quigley, P.E.

JQ/18/Plw.
Encl.

cc: Paul Bucholtz (MDEQ) - three hard copies
Jim Saric (U.S. EPA) - electronic only
Leslie Kirby-Miles (U.S. EPA) - electronic only
Erik Wilson (City of Plainwell) - electronic only
Richard Gay (Weyerhaeuser) - electronic only
Joe Jackowski (Weyerhaeuser) - electronic only
Martin Lebo (Weyerhaeuser) - electronic only
Michael Erickson (Arcadis) - electronic only
Dawn Penniman (Arcadis) - electronic only
Garry Griffith (Georgia-Pacific, LLC) - electronic only
Jeffrey Lifka (Tetra Tech) - electronic only
Gregory Carli (CRA) - electronic only

Progress Report No. 70
August 1, 2012 to August 31, 2012

Remedial Investigation and Feasibility Study
Former Plainwell, Inc. Mill Property
Plainwell, Michigan

This progress report is being submitted to the United States Environmental Protection Agency (U.S. EPA) in accordance with Task 8: Progress Reports and the Schedule for Major Deliverables contained in the Statement of Work for the Remedial Investigation/Feasibility Study (RI/FS), pursuant to the terms of the Consent Decree for the Design and Implementation of Certain Response Actions at Operable Unit No. 4 and the Plainwell, Inc. Mill Property (Site) Operational Unit No. 7of the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site (Consent Decree), which became effective February 22, 2005.

1. Work Performed

- Implementation of the Revised Work Plan for Additional RI Activities between July 31 to August 27, 2012, subsequent to receipt of conditional approval from U.S. EPA of the Revised Work Plan for Additional RI Activities on July 19, 2012.
- Removal of non-hazardous waste generated during excavation activities near TP-203 in May 2012 on August 20, 2012.

2. Data Received

- Receipt of sample results for waste characterization samples collected from excavated materials associated with the utility installation work completed by Michigan Gas Utilities in Residential Area 1 near former Lagoon K. The results for the waste characterization samples are provided in Attachment 1. The waste characterization data indicates the waste can be disposed off-Site as non-hazardous waste.

3. Modifications to Work Plans or Other Schedules Proposed to, or Approved by, the U.S. EPA

- None.

4. Problems Encountered and Planned Resolution

- None.

5. Work Anticipated During the Next Reporting Period

- Removal of utility installation excavated materials near former Lagoon K and investigation-derived waste generated during the MW-16 investigation.
- Submittal of responses for comments received from U.S. EPA on August 7, 2012 for the Summary of Additional RI Activities PCB-Impacted Soil in the Area of MW-16 memorandum, which was submitted to U.S. EPA on June 22, 2012.

- Submittal of responses for comments received from U.S. EPA on August 30, 2012 for the Remedial Investigation Report (Revision 1), which was submitted to the U.S. EPA on April 20, 2012 with revisions on July 10, 2012.

6. Anticipated Development with Work during the Next Period

- None.

7. Other Relevant Information

- On August 24, 2012 during property redevelopment activities conducted on the western side of the former Sludge Dewatering Building (i.e., new City of Plainwell Public Safety Building), two small below grade structures in series were encountered approximately 3 feet below ground surface (bgs). The structures were of metal construction, with portions of the metal damaged and/or perforated. The structures were oriented in a north-south direction and were attached via polyvinyl chloride piping. The northern structure was observed to be dry, with perforations along the bottom. The southern structure was observed to contain a sludgy liquid, which exhibited a sewage-like odor. No petroleum/solvent odors or staining were noted in the vicinity of the structures. U.S. EPA was notified of the initial structure discovery on August 27, 2012. Subsequent to notification on August 27, 2012, the structures were removed from the ground, placed on polyethylene sheeting on the northwestern corner of the former Sludge Dewatering Building portion of the Site, and covered with polyethylene sheeting for future characterization for off-Site disposal. One soil sample was collected from beneath the structures for analysis for Target Compound List (TCL) volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), TCL SVOCs, Target Analyte List (TAL) metals, total cyanide, and Site-specific general chemistry parameters (nitrate, nitrite, and total phosphorus).

ATTACHMENT 1

WASTE CHARACTERIZATION SAMPLE RESULTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-14210-1
Client Project/Site: 56394, Plainwell Mill

For:
Conestoga-Rovers & Associates, Inc.
14496 Sheldon Road, Suite 200
Plymouth, Michigan 48170

Attn: Mr. Paul Wiseman

Denise D Heckler

Authorized for release by:
8/30/2012 5:12:42 PM

Denise Heckler
Project Manager II
denise.heckler@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Job ID: 240-14210-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 56394, Plainwell Mill

Report Number: 240-14210-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 08/15/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.6 C.

TCLP VOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample SO-56394-081412-EB-001 (240-14210-1) was analyzed for TCLP volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 1311/8260B. The samples were leached on 08/16/2012 and analyzed on 08/20/2012.

The laboratory control sample (LCS) for batch 54694 exceeded control limits for the following analytes: carbon tetrachloride. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No other difficulties were encountered during the VOCs analysis.

All other quality control parameters were within the acceptance limits.

TCLP SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample SO-56394-081412-EB-001 (240-14210-1) was analyzed for TCLP semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 1311/8270C. The samples were leached on 08/16/2012, prepared on 08/17/2012 and analyzed on 08/29/2012.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and

Job ID: 240-14210-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

no corrective action is required.

No difficulties were encountered during the SVOCs analysis.

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample SO-56394-081412-EB-001 (240-14210-1) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082. The samples were prepared on 08/21/2012 and analyzed on 08/23/2012.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Sample SO-56394-081412-EB-001 (240-14210-1)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: SO-56394-081412-EB-001 (240-14210-1). Lot # S65830.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

TCLP METALS (ICP)

Sample SO-56394-081412-EB-001 (240-14210-1) was analyzed for TCLP metals (ICP) in accordance with EPA SW-846 Methods 1311/6010B. The samples were leached on 08/16/2012, prepared on 08/17/2012 and analyzed on 08/20/2012.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

TCLP MERCURY

Sample SO-56394-081412-EB-001 (240-14210-1) was analyzed for TCLP mercury in accordance with EPA SW-846 Methods 1311/7470A. The samples were leached on 08/16/2012, prepared on 08/17/2012 and analyzed on 08/18/2012.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Sample SO-56394-081412-EB-001 (240-14210-1) was analyzed for total mercury in accordance with EPA SW-846 Method 7471A. The samples were prepared on 08/20/2012 and analyzed on 08/21/2012.

No difficulties were encountered during the mercury analysis.

All quality control parameters were within the acceptance limits.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 56394, Plainwell Mill

TestAmerica Job ID: 240-14210-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-14210-1	SO-56394-081412-EB-001	Solid	08/14/12 17:15	08/15/12 09:20

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 56394, Plainwell Mill

TestAmerica Job ID: 240-14210-1

Client Sample ID: SO-56394-081412-EB-001

Lab Sample ID: 240-14210-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	670		210	ug/Kg	5	☼	8082	Total/NA
Mercury	0.17		0.052	mg/Kg	1	☼	7471A	Total/NA

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 56394, Plainwell Mill

TestAmerica Job ID: 240-14210-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NC
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NC
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL NC
6010B	Metals (ICP)	SW846	TAL NC
7470A	Mercury (CVAA)	SW846	TAL NC
7471A	Mercury (CVAA)	SW846	TAL NC
Moisture	Percent Moisture	EPA	TAL NC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Client Sample ID: SO-56394-081412-EB-001
Date Collected: 08/14/12 17:15
Date Received: 08/15/12 09:20

Lab Sample ID: 240-14210-1
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.025	U	0.025	mg/L			08/20/12 21:57	1
1,2-Dichloroethane	0.025	U	0.025	mg/L			08/20/12 21:57	1
2-Butanone (MEK)	0.25	U	0.25	mg/L			08/20/12 21:57	1
Benzene	0.025	U	0.025	mg/L			08/20/12 21:57	1
Carbon tetrachloride	0.025	U *	0.025	mg/L			08/20/12 21:57	1
Chlorobenzene	0.025	U	0.025	mg/L			08/20/12 21:57	1
Chloroform	0.025	U	0.025	mg/L			08/20/12 21:57	1
Tetrachloroethene	0.025	U	0.025	mg/L			08/20/12 21:57	1
Trichloroethene	0.025	U	0.025	mg/L			08/20/12 21:57	1
Vinyl chloride	0.025	U	0.025	mg/L			08/20/12 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 121*		*08/20/12 21:57*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 124*		*08/20/12 21:57*	*1*
Toluene-d8 (Surr)	*107*		*90 - 115*		*08/20/12 21:57*	*1*
Dibromofluoromethane (Surr)	*124*		*84 - 128*		*08/20/12 21:57*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Client Sample ID: SO-56394-081412-EB-001
Date Collected: 08/14/12 17:15
Date Received: 08/15/12 09:20

Lab Sample ID: 240-14210-1
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0040	U	0.0040	mg/L		08/17/12 10:54	08/29/12 10:27	1
2,4,5-Trichlorophenol	0.020	U	0.020	mg/L		08/17/12 10:54	08/29/12 10:27	1
2,4,6-Trichlorophenol	0.020	U	0.020	mg/L		08/17/12 10:54	08/29/12 10:27	1
2,4-Dinitrotoluene	0.020	U	0.020	mg/L		08/17/12 10:54	08/29/12 10:27	1
Hexachlorobenzene	0.020	U	0.020	mg/L		08/17/12 10:54	08/29/12 10:27	1
Hexachlorobutadiene	0.020	U	0.020	mg/L		08/17/12 10:54	08/29/12 10:27	1
Hexachloroethane	0.020	U	0.020	mg/L		08/17/12 10:54	08/29/12 10:27	1
3 & 4 Methylphenol	0.040	U	0.040	mg/L		08/17/12 10:54	08/29/12 10:27	1
2-Methylphenol	0.0040	U	0.0040	mg/L		08/17/12 10:54	08/29/12 10:27	1
Nitrobenzene	0.0040	U	0.0040	mg/L		08/17/12 10:54	08/29/12 10:27	1
Pentachlorophenol	0.040	U	0.040	mg/L		08/17/12 10:54	08/29/12 10:27	1
Pyridine	0.020	U	0.020	mg/L		08/17/12 10:54	08/29/12 10:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*55*		*22 - 110*	*08/17/12 10:54*	*08/29/12 10:27*	*1*
2-Fluorophenol (Surr)	*61*		*10 - 110*	*08/17/12 10:54*	*08/29/12 10:27*	*1*
2,4,6-Tribromophenol (Surr)	*61*		*17 - 117*	*08/17/12 10:54*	*08/29/12 10:27*	*1*
Nitrobenzene-d5 (Surr)	*60*		*29 - 111*	*08/17/12 10:54*	*08/29/12 10:27*	*1*
Phenol-d5 (Surr)	*52*		*10 - 110*	*08/17/12 10:54*	*08/29/12 10:27*	*1*
Terphenyl-d14 (Surr)	*83*		*40 - 119*	*08/17/12 10:54*	*08/29/12 10:27*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: SO-56394-081412-EB-001
Date Collected: 08/14/12 17:15
Date Received: 08/15/12 09:20

Lab Sample ID: 240-14210-1
Matrix: Solid
Percent Solids: 79.9

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	210	U	210	ug/Kg	☼	08/21/12 11:34	08/23/12 04:56	5
Aroclor-1221	210	U	210	ug/Kg	☼	08/21/12 11:34	08/23/12 04:56	5
Aroclor-1232	210	U	210	ug/Kg	☼	08/21/12 11:34	08/23/12 04:56	5
Aroclor-1242	210	U	210	ug/Kg	☼	08/21/12 11:34	08/23/12 04:56	5
Aroclor-1248	210	U	210	ug/Kg	☼	08/21/12 11:34	08/23/12 04:56	5
Aroclor-1254	**670**		210	ug/Kg	☼	08/21/12 11:34	08/23/12 04:56	5
Aroclor-1260	210	U	210	ug/Kg	☼	08/21/12 11:34	08/23/12 04:56	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*29 - 151*	*08/21/12 11:34*	*08/23/12 04:56*	*5*
DCB Decachlorobiphenyl	*71*		*14 - 163*	*08/21/12 11:34*	*08/23/12 04:56*	*5*

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 56394, Plainwell Mill

TestAmerica Job ID: 240-14210-1

Method: 6010B - Metals (ICP) - TCLP

Client Sample ID: SO-56394-081412-EB-001
Date Collected: 08/14/12 17:15
Date Received: 08/15/12 09:20

Lab Sample ID: 240-14210-1
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.50	U	0.50	mg/L		08/17/12 08:52	08/20/12 14:11	1
Barium	10	U	10	mg/L		08/17/12 08:52	08/20/12 14:11	1
Cadmium	0.10	U	0.10	mg/L		08/17/12 08:52	08/20/12 14:11	1
Chromium	0.50	U	0.50	mg/L		08/17/12 08:52	08/20/12 14:11	1
Lead	0.50	U	0.50	mg/L		08/17/12 08:52	08/20/12 14:11	1
Selenium	0.25	U	0.25	mg/L		08/17/12 08:52	08/20/12 14:11	1
Silver	0.50	U	0.50	mg/L		08/17/12 08:52	08/20/12 14:11	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 56394, Plainwell Mill

TestAmerica Job ID: 240-14210-1

Method: 7470A - Mercury (CVAA) - TCLP

Client Sample ID: SO-56394-081412-EB-001
Date Collected: 08/14/12 17:15
Date Received: 08/15/12 09:20

Lab Sample ID: 240-14210-1
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	mg/L		08/17/12 12:35	08/18/12 11:39	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 56394, Plainwell Mill

TestAmerica Job ID: 240-14210-1

Method: 7471A - Mercury (CVAA)

Client Sample ID: SO-56394-081412-EB-001
Date Collected: 08/14/12 17:15
Date Received: 08/15/12 09:20

Lab Sample ID: 240-14210-1
Matrix: Solid
Percent Solids: 79.9

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.052	mg/Kg	☼	08/20/12 14:30	08/21/12 20:37	1

GC/MS VOA

Leach Batch: 54694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-14210-1	SO-56394-081412-EB-001	TCLP	Solid	1311	
LB 240-54694/1-A MB	Method Blank	TCLP	Solid	1311	

Analysis Batch: 55060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-14210-1	SO-56394-081412-EB-001	TCLP	Solid	8260B	54694
LB 240-54694/1-A MB	Method Blank	TCLP	Solid	8260B	54694
LCS 240-55060/8	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Leach Batch: 54697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-14210-1	SO-56394-081412-EB-001	TCLP	Solid	1311	

Prep Batch: 54797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-14210-1	SO-56394-081412-EB-001	TCLP	Solid	3510C	54697
LCS 240-54797/5-A	Lab Control Sample	Total/NA	Solid	3510C	
MB 240-54797/4-A	Method Blank	Total/NA	Solid	3510C	

Analysis Batch: 55772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-54797/5-A	Lab Control Sample	Total/NA	Solid	8270C	54797
MB 240-54797/4-A	Method Blank	Total/NA	Solid	8270C	54797

Analysis Batch: 56048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-14210-1	SO-56394-081412-EB-001	TCLP	Solid	8270C	54797

GC Semi VOA

Prep Batch: 55165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-14210-1	SO-56394-081412-EB-001	Total/NA	Solid	3540C	
LCS 240-55165/23-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-55165/22-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 55395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-14210-1	SO-56394-081412-EB-001	Total/NA	Solid	8082	55165
LCS 240-55165/23-A	Lab Control Sample	Total/NA	Solid	8082	55165
MB 240-55165/22-A	Method Blank	Total/NA	Solid	8082	55165

Metals

Leach Batch: 54697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-14210-1	SO-56394-081412-EB-001	TCLP	Solid	1311	
240-14210-1 MS	SO-56394-081412-EB-001	TCLP	Solid	1311	
240-14210-1 MSD	SO-56394-081412-EB-001	TCLP	Solid	1311	

Metals (Continued)

Leach Batch: 54697 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 240-54697/1-C LB	Method Blank	TCLP	Solid	1311	
LB 240-54697/1-D LB	Method Blank	TCLP	Solid	1311	

Prep Batch: 54760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-14210-1	SO-56394-081412-EB-001	TCLP	Solid	3010A	54697
240-14210-1 MS	SO-56394-081412-EB-001	TCLP	Solid	3010A	54697
240-14210-1 MSD	SO-56394-081412-EB-001	TCLP	Solid	3010A	54697
LB 240-54697/1-C LB	Method Blank	TCLP	Solid	3010A	54697
LCS 240-54760/3-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 240-54760/2-A	Method Blank	Total/NA	Solid	3010A	

Prep Batch: 54761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-14210-1	SO-56394-081412-EB-001	TCLP	Solid	7470A	54697
240-14210-1 MS	SO-56394-081412-EB-001	TCLP	Solid	7470A	54697
240-14210-1 MSD	SO-56394-081412-EB-001	TCLP	Solid	7470A	54697
LB 240-54697/1-D LB	Method Blank	TCLP	Solid	7470A	54697
LCS 240-54761/3-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 240-54761/2-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 54930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-14210-1	SO-56394-081412-EB-001	TCLP	Solid	7470A	54761
240-14210-1 MS	SO-56394-081412-EB-001	TCLP	Solid	7470A	54761
240-14210-1 MSD	SO-56394-081412-EB-001	TCLP	Solid	7470A	54761
LB 240-54697/1-D LB	Method Blank	TCLP	Solid	7470A	54761
LCS 240-54761/3-A	Lab Control Sample	Total/NA	Solid	7470A	54761
MB 240-54761/2-A	Method Blank	Total/NA	Solid	7470A	54761

Prep Batch: 55010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-14210-1	SO-56394-081412-EB-001	Total/NA	Solid	7471A	
LCS 240-55010/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 240-55010/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 55075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-14210-1	SO-56394-081412-EB-001	TCLP	Solid	6010B	54760
240-14210-1 MS	SO-56394-081412-EB-001	TCLP	Solid	6010B	54760
240-14210-1 MSD	SO-56394-081412-EB-001	TCLP	Solid	6010B	54760
LB 240-54697/1-C LB	Method Blank	TCLP	Solid	6010B	54760
LCS 240-54760/3-A	Lab Control Sample	Total/NA	Solid	6010B	54760
MB 240-54760/2-A	Method Blank	Total/NA	Solid	6010B	54760

Analysis Batch: 55248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-14210-1	SO-56394-081412-EB-001	Total/NA	Solid	7471A	55010
LCS 240-55010/2-A	Lab Control Sample	Total/NA	Solid	7471A	55010
MB 240-55010/1-A	Method Blank	Total/NA	Solid	7471A	55010

General Chemistry

Analysis Batch: 54750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-14210-1	SO-56394-081412-EB-001	Total/NA	Solid	Moisture	

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LCS 240-55060/8
Matrix: Solid
Analysis Batch: 55060

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	1.00	1.12		mg/L		112	71 - 133
1,2-Dichloroethane	1.00	0.958		mg/L		96	81 - 114
2-Butanone (MEK)	2.00	1.78		mg/L		89	49 - 120
Benzene	1.00	0.954		mg/L		95	84 - 120
Carbon tetrachloride	1.00	1.25	*	mg/L		125	54 - 122
Chlorobenzene	1.00	0.986		mg/L		99	86 - 111
Chloroform	1.00	0.945		mg/L		95	87 - 123
Tetrachloroethene	1.00	1.10		mg/L		110	79 - 134
Trichloroethene	1.00	1.12		mg/L		112	78 - 130
Vinyl chloride	1.00	1.02		mg/L		102	56 - 111

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 121*
4-Bromofluorobenzene (Surr)	*97*		*70 - 124*
Toluene-d8 (Surr)	*112*		*90 - 115*
Dibromofluoromethane (Surr)	*121*		*84 - 128*

Lab Sample ID: LB 240-54694/1-A MB
Matrix: Solid
Analysis Batch: 55060

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.025	U	0.025	mg/L			08/20/12 20:17	1
1,2-Dichloroethane	0.025	U	0.025	mg/L			08/20/12 20:17	1
2-Butanone (MEK)	0.25	U	0.25	mg/L			08/20/12 20:17	1
Benzene	0.025	U	0.025	mg/L			08/20/12 20:17	1
Carbon tetrachloride	0.025	U	0.025	mg/L			08/20/12 20:17	1
Chlorobenzene	0.025	U	0.025	mg/L			08/20/12 20:17	1
Chloroform	0.025	U	0.025	mg/L			08/20/12 20:17	1
Tetrachloroethene	0.025	U	0.025	mg/L			08/20/12 20:17	1
Trichloroethene	0.025	U	0.025	mg/L			08/20/12 20:17	1
Vinyl chloride	0.025	U	0.025	mg/L			08/20/12 20:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 121*		*08/20/12 20:17*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 124*		*08/20/12 20:17*	*1*
Toluene-d8 (Surr)	*105*		*90 - 115*		*08/20/12 20:17*	*1*
Dibromofluoromethane (Surr)	*123*		*84 - 128*		*08/20/12 20:17*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-54797/4-A
Matrix: Solid
Analysis Batch: 55772

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 54797

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0040	U	0.0040	mg/L		08/17/12 10:54	08/27/12 11:38	1
2,4,5-Trichlorophenol	0.020	U	0.020	mg/L		08/17/12 10:54	08/27/12 11:38	1
2,4,6-Trichlorophenol	0.020	U	0.020	mg/L		08/17/12 10:54	08/27/12 11:38	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-54797/4-A
Matrix: Solid
Analysis Batch: 55772

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 54797

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	0.020	U	0.020	mg/L		08/17/12 10:54	08/27/12 11:38	1
Hexachlorobenzene	0.020	U	0.020	mg/L		08/17/12 10:54	08/27/12 11:38	1
Hexachlorobutadiene	0.020	U	0.020	mg/L		08/17/12 10:54	08/27/12 11:38	1
Hexachloroethane	0.020	U	0.020	mg/L		08/17/12 10:54	08/27/12 11:38	1
3 & 4 Methylphenol	0.040	U	0.040	mg/L		08/17/12 10:54	08/27/12 11:38	1
2-Methylphenol	0.0040	U	0.0040	mg/L		08/17/12 10:54	08/27/12 11:38	1
Nitrobenzene	0.0040	U	0.0040	mg/L		08/17/12 10:54	08/27/12 11:38	1
Pentachlorophenol	0.040	U	0.040	mg/L		08/17/12 10:54	08/27/12 11:38	1
Pyridine	0.020	U	0.020	mg/L		08/17/12 10:54	08/27/12 11:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*57*		*22 - 110*	*08/17/12 10:54*	*08/27/12 11:38*	*1*
2-Fluorophenol (Surr)	*62*		*10 - 110*	*08/17/12 10:54*	*08/27/12 11:38*	*1*
2,4,6-Tribromophenol (Surr)	*61*		*17 - 117*	*08/17/12 10:54*	*08/27/12 11:38*	*1*
Nitrobenzene-d5 (Surr)	*57*		*29 - 111*	*08/17/12 10:54*	*08/27/12 11:38*	*1*
Phenol-d5 (Surr)	*51*		*10 - 110*	*08/17/12 10:54*	*08/27/12 11:38*	*1*
Terphenyl-d14 (Surr)	*76*		*40 - 119*	*08/17/12 10:54*	*08/27/12 11:38*	*1*

Lab Sample ID: LCS 240-54797/5-A
Matrix: Solid
Analysis Batch: 55772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 54797

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0800	0.0546		mg/L		68	16 - 110
2,4,5-Trichlorophenol	0.0800	0.0574		mg/L		72	35 - 111
2,4,6-Trichlorophenol	0.0800	0.0571		mg/L		71	32 - 110
2,4-Dinitrotoluene	0.0800	0.0557		mg/L		70	45 - 126
Hexachlorobenzene	0.0800	0.0547		mg/L		68	47 - 116
Hexachlorobutadiene	0.0800	0.0484		mg/L		60	10 - 110
Hexachloroethane	0.0800	0.0531		mg/L		66	10 - 110
3 & 4 Methylphenol	0.160	0.126		mg/L		79	27 - 110
2-Methylphenol	0.0800	0.0594		mg/L		74	24 - 110
Nitrobenzene	0.0800	0.0509		mg/L		64	35 - 117
Pentachlorophenol	0.0800	0.0466		mg/L		58	12 - 110
Pyridine	0.0800	0.0542		mg/L		68	10 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*58*		*22 - 110*
2-Fluorophenol (Surr)	*66*		*10 - 110*
2,4,6-Tribromophenol (Surr)	*64*		*17 - 117*
Nitrobenzene-d5 (Surr)	*59*		*29 - 111*
Phenol-d5 (Surr)	*58*		*10 - 110*
Terphenyl-d14 (Surr)	*78*		*40 - 119*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-55165/22-A
Matrix: Solid
Analysis Batch: 55395

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55165

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	33	U	33	ug/Kg		08/21/12 11:34	08/23/12 06:55	1
Aroclor-1221	33	U	33	ug/Kg		08/21/12 11:34	08/23/12 06:55	1
Aroclor-1232	33	U	33	ug/Kg		08/21/12 11:34	08/23/12 06:55	1
Aroclor-1242	33	U	33	ug/Kg		08/21/12 11:34	08/23/12 06:55	1
Aroclor-1248	33	U	33	ug/Kg		08/21/12 11:34	08/23/12 06:55	1
Aroclor-1254	33	U	33	ug/Kg		08/21/12 11:34	08/23/12 06:55	1
Aroclor-1260	33	U	33	ug/Kg		08/21/12 11:34	08/23/12 06:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*29 - 151*	*08/21/12 11:34*	*08/23/12 06:55*	*1*
DCB Decachlorobiphenyl	*85*		*14 - 163*	*08/21/12 11:34*	*08/23/12 06:55*	*1*

Lab Sample ID: LCS 240-55165/23-A
Matrix: Solid
Analysis Batch: 55395

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55165

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	333	307		ug/Kg		92	62 - 120
Aroclor-1260	333	336		ug/Kg		101	56 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*29 - 151*
DCB Decachlorobiphenyl	*98*		*14 - 163*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-54760/2-A
Matrix: Solid
Analysis Batch: 55075

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 54760

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.50	U	0.50	mg/L		08/17/12 08:52	08/20/12 13:59	1
Barium	10	U	10	mg/L		08/17/12 08:52	08/20/12 13:59	1
Cadmium	0.10	U	0.10	mg/L		08/17/12 08:52	08/20/12 13:59	1
Chromium	0.50	U	0.50	mg/L		08/17/12 08:52	08/20/12 13:59	1
Lead	0.50	U	0.50	mg/L		08/17/12 08:52	08/20/12 13:59	1
Selenium	0.25	U	0.25	mg/L		08/17/12 08:52	08/20/12 13:59	1
Silver	0.50	U	0.50	mg/L		08/17/12 08:52	08/20/12 13:59	1

Lab Sample ID: LCS 240-54760/3-A
Matrix: Solid
Analysis Batch: 55075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 54760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2.00	2.00		mg/L		100	50 - 150
Barium	2.00	10	U	mg/L		100	50 - 150
Cadmium	0.0500	0.10	U	mg/L		101	50 - 150
Chromium	0.200	0.50	U	mg/L		101	50 - 150
Lead	0.500	0.501		mg/L		100	50 - 150

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-54760/3-A
Matrix: Solid
Analysis Batch: 55075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 54760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	2.00	2.01		mg/L		100	50 - 150
Silver	0.0500	0.50	U	mg/L		101	50 - 150

Lab Sample ID: LB 240-54697/1-C LB
Matrix: Solid
Analysis Batch: 55075

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 54760

Analyte	LB Result	LB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.50	U	0.50	mg/L		08/17/12 08:52	08/20/12 13:54	1
Barium	10	U	10	mg/L		08/17/12 08:52	08/20/12 13:54	1
Cadmium	0.10	U	0.10	mg/L		08/17/12 08:52	08/20/12 13:54	1
Chromium	0.50	U	0.50	mg/L		08/17/12 08:52	08/20/12 13:54	1
Lead	0.50	U	0.50	mg/L		08/17/12 08:52	08/20/12 13:54	1
Selenium	0.25	U	0.25	mg/L		08/17/12 08:52	08/20/12 13:54	1
Silver	0.50	U	0.50	mg/L		08/17/12 08:52	08/20/12 13:54	1

Lab Sample ID: 240-14210-1 MS
Matrix: Solid
Analysis Batch: 55075

Client Sample ID: SO-56394-081412-EB-001
Prep Type: TCLP
Prep Batch: 54760

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.50	U	5.00	4.87		mg/L		97	50 - 150
Barium	10	U	50.0	50	U	mg/L		97	50 - 150
Cadmium	0.10	U	1.00	0.997		mg/L		100	50 - 150
Chromium	0.50	U	5.00	4.88		mg/L		98	50 - 150
Lead	0.50	U	5.00	4.97		mg/L		99	50 - 150
Selenium	0.25	U	1.00	1.3	U	mg/L		96	50 - 150
Silver	0.50	U	1.00	2.5	U	mg/L		95	50 - 150

Lab Sample ID: 240-14210-1 MSD
Matrix: Solid
Analysis Batch: 55075

Client Sample ID: SO-56394-081412-EB-001
Prep Type: TCLP
Prep Batch: 54760

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.50	U	5.00	4.94		mg/L		99	50 - 150	1	20
Barium	10	U	50.0	50	U	mg/L		99	50 - 150	2	20
Cadmium	0.10	U	1.00	1.01		mg/L		101	50 - 150	2	20
Chromium	0.50	U	5.00	4.98		mg/L		100	50 - 150	2	20
Lead	0.50	U	5.00	5.06		mg/L		101	50 - 150	2	20
Selenium	0.25	U	1.00	1.3	U	mg/L		97	50 - 150	0	20
Silver	0.50	U	1.00	2.5	U	mg/L		98	50 - 150	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-54761/2-A
Matrix: Solid
Analysis Batch: 54930

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 54761

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	mg/L		08/17/12 12:35	08/18/12 11:36	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 240-54761/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 54930 — **Prep Batch: 54761**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00500	0.00559		mg/L		112	50 - 150

Lab Sample ID: LB 240-54697/1-D LB — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 54930 — **Prep Batch: 54761**

Analyte	LB Result	LB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	mg/L		08/17/12 12:35	08/18/12 11:35	1

Lab Sample ID: 240-14210-1 MS — **Client Sample ID: SO-56394-081412-EB-001**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 54930 — **Prep Batch: 54761**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0020	U	0.00500	0.00530		mg/L		106	50 - 150

Lab Sample ID: 240-14210-1 MSD — **Client Sample ID: SO-56394-081412-EB-001**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 54930 — **Prep Batch: 54761**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.0020	U	0.00500	0.00525		mg/L		105	50 - 150	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 240-55010/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 55248 — **Prep Batch: 55010**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040	U	0.040	mg/Kg		08/20/12 14:30	08/21/12 19:57	1

Lab Sample ID: LCS 240-55010/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 55248 — **Prep Batch: 55010**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.762		mg/Kg		91	73 - 121

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(80-121)	(70-124)	(90-115)	(84-128)
LCS 240-55060/8	Lab Control Sample	104	97	112	121

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(80-121)	(70-124)	(90-115)	(84-128)
240-14210-1	SO-56394-081412-EB-001	108	93	107	124
LB 240-54694/1-A MB	Method Blank	106	93	105	123

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(22-110)	(10-110)	(17-117)	(29-111)	(10-110)	(40-119)
LCS 240-54797/5-A	Lab Control Sample	58	66	64	59	58	78
MB 240-54797/4-A	Method Blank	57	62	61	57	51	76

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(22-110)	(10-110)	(17-117)	(29-111)	(10-110)	(40-119)
240-14210-1	SO-56394-081412-EB-001	55	61	61	60	52	83

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 56394, Plainwell Mill

TestAmerica Job ID: 240-14210-1

NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	**Client Sample ID**	**(29-151)**	**(14-163)**
240-14210-1	SO-56394-081412-EB-001	68	71
LCS 240-55165/23-A	Lab Control Sample	86	98
MB 240-55165/22-A	Method Blank	73	85

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Client Sample ID: SO-56394-081412-EB-001
Date Collected: 08/14/12 17:15
Date Received: 08/15/12 09:20

Lab Sample ID: 240-14210-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			54694	08/16/12 15:02	BF	TAL NC
TCLP	Analysis	8260B		1	55060	08/20/12 21:57	TL	TAL NC
TCLP	Leach	1311			54697	08/16/12 15:04	BF	TAL NC
TCLP	Prep	3510C			54797	08/17/12 10:54	BM	TAL NC
TCLP	Analysis	8270C		1	56048	08/29/12 10:27	MU	TAL NC
Total/NA	Prep	3540C			55165	08/21/12 11:34	SE	TAL NC
Total/NA	Analysis	8082		5	55395	08/23/12 04:56	CJ	TAL NC
TCLP	Leach	1311			54697	08/16/12 15:04	BF	TAL NC
TCLP	Prep	7470A			54761	08/17/12 12:35	LM	TAL NC
TCLP	Analysis	7470A		1	54930	08/18/12 11:39	DH	TAL NC
TCLP	Prep	3010A			54760	08/17/12 08:52	LM	TAL NC
TCLP	Analysis	6010B		1	55075	08/20/12 14:11	BD	TAL NC
Total/NA	Prep	7471A			55010	08/20/12 14:30	DE	TAL NC
Total/NA	Analysis	7471A		1	55248	08/21/12 20:37	DH	TAL NC
Total/NA	Analysis	Moisture		1	54750	08/17/12 08:35	TH	TAL NC

Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 56394, Plainwell Mill

TestAmerica Job ID: 240-14210-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAC	9	01144CA	06-30-13
Connecticut	State Program	1	PH-0590	12-31-13
Florida	NELAC	4	E87225	06-30-13
Georgia	State Program	4	N/A	06-30-13
Illinois	NELAC	5	200004	07-31-13
Kansas	NELAC	7	E-10336	01-31-13
Kentucky	State Program	4	58	11-16-12
L-A-B	DoD ELAP		L2315	02-28-13
Minnesota	NELAC	5	039-999-348	12-31-12
Nevada	State Program	9	OH-000482008A	07-31-12
New Jersey	NELAC	2	OH001	06-30-13
New York	NELAC	2	10975	04-01-13
Ohio VAP	State Program	5	CL0024	01-19-14
Pennsylvania	NELAC	3	68-00340	08-31-12
USDA	Federal		P330-11-00328	08-26-14
Virginia	NELAC	3	460175	09-14-12
Washington	State Program	10	C971	01-12-13
West Virginia DEP	State Program	3	210	12-31-12
Wisconsin	State Program	5	999518190	08-31-12

CHAIN OF CUSTODY RECORD

COC NO. PL- 09882
PAGE 1 OF 1
(See Reverse Side for Instructions)

CONESTOGA-ROVERS & ASSOCIATES
14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170
Phone: (734) 453-5123 Fax: (734) 453-5201

Project No/ Phase/Task Code: 056394-05-0005	Laboratory Name: TA	Lab Location: North Canton OH	SSOW ID: 056394-005
Project Name: Former Plainwell, Inc. Mill Prop.	Lab Contact: D. Heckler	Lab Quote No:	Cooler No: —
Project Location: Plainwell, MI			Carrier: Fedex
Chemistry Contact: P. Wiseman			Airbill No: —
Sampler(s): E. Batenburg			Date Shipped: 8-14-12

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3g5-g, 1x25-g	Other:	Total Containers/Sample	TCLP Metals	TCLP VOCs	TCLP SVOCs	PCBs	Hg	MS/MSD Request	Comments/ Special Instructions:
1	SO-56394-081412-EB-001	08/14/12	1715	SO	C	4								4	X	X	X	X	X		
2																					
3																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☒ 2 Week ☐ Other:

Total Number of Containers: 4
All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1.	CRA	8-14-12	1750	1.	TA	8-15-12	920
				2.			
				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

TestAmerica North Canton Sample Receipt Form/Narrative Login # : 14210 ~~14198~~

Client CIRA Site Name _____ By: _____ (Signature)

Cooler Received on 8-15-12 Opened on 8-15-12

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # _____ Foam Box ~~Client Cooler~~ Box Other _____

Packing material used: ~~Bubble Wrap~~ Foam Plastic Bag None Other _____

~~COOLANT:~~ ~~Wet Ice~~ ~~Blue Ice~~ ~~Dry Ice~~ ~~Water~~ ~~None~~

1. Cooler temperature upon receipt

IR GUN# 1	(CF 0°C)	Observed Sample Temp. _____ °C	Corrected Sample Temp. _____ °C	
IR GUN# 4G	(CF –1°C)	Observed Sample Temp. _____ °C	Corrected Sample Temp. _____ °C	☐ Multiple
IR GUN# 5G	(CF –1°C)	Observed Sample Temp. _____ °C	Corrected Sample Temp. _____ °C	on Back
IR GUN# 8	(CF 0°C)	Observed Sample Temp. 3.6 °C	Corrected Sample Temp. 3.6 °C	

~~2. Were custody seals on the outside of the cooler(s)? If Yes Quantity _____~~	~~Yes~~ (No)
-Were custody seals on the outside of the cooler(s) signed & dated?	Yes No (NA)
-Were custody seals on the bottle(s)?	Yes (No)
3. Shippers' packing slip attached to the cooler(s)?	(Yes) No
4. Did custody papers accompany the sample(s)?	(Yes) No
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes) No
6. Did all bottles arrive in good condition (Unbroken)?	(Yes) No
7. Could all bottle labels be reconciled with the COC?	(Yes) No
8. Were correct bottle(s) used for the test(s) indicated?	(Yes) No
9. Sufficient quantity received to perform indicated analyses?	(Yes) No
10. Were sample(s) at the correct pH upon receipt?	Yes No (NA)
11. Were VOAs on the COC?	Yes (No)
12. Were air bubbles >6 mm in any VOA vials?	Yes No (NA)
13. Was a trip blank present in the cooler(s)?	Yes (No)

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ______________________________ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 110410-HNO3; Sulfuric Acid Lot# 041911-H2SO4; Sodium Hydroxide Lot# 121809 -NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH3COO)2ZN/NaOH. What time was preservative added to sample(s)? ______________________________

Client ID	pH	Date	Initials

Cooler #	Observed Sample Temp. °C	Corrected Sample Temp. °C	IR #	Coolant

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 240-14210-1

Login Number: 14210
List Number: 1
Creator: Maddux, Ann

List Source: TestAmerica Canton

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	REFER TO COOLER RECEIPT FORM
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	N/A	
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	N/A	
Samples are received within Holding Time.	N/A	
Sample containers have legible labels.	N/A	
Containers are not broken or leaking.	N/A	
Sample collection date/times are provided.	N/A	
Appropriate sample containers are used.	N/A	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

EMSL Analytical, Inc.
212 South Wagner Road, Ann Arbor, MI 48103
Phone/Fax: (734) 668-6810 / (734) 668-8532
http://www.emsl.com annarborlab@emsl.com

EMSL Order:	081201960
CustomerID:	CONE53K
CustomerPO:	
ProjectID:	

Attn: **Jennie Quigley**
CRA (Conestoga-Rovers & Assoc)
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

Phone:	(734) 453-5123
Fax:	(734) 453-5201
Received:	08/28/12 9:12 AM
Analysis Date:	8/29/2012
Collected:	

Project: **056394**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 and/or EPA 600/M4-82-020 Method(s) using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
A056394-082312-JMD-002 *081201960-0001*	Floor Tile	Gray/Blue/Pink Fibrous Homogeneous		97% Non-fibrous (other)	**3% Chrysotile**
A056394-082312-JMD-002 *081201960-0001A*	Mastic	Black Fibrous Homogeneous	5% Glass 2% Cellulose	93% Non-fibrous (other)	**None Detected**
A056394-082312-JMD-003 *081201960-0002*	Floor Tile	Gray/Tan Fibrous Homogeneous		96% Non-fibrous (other)	**4% Chrysotile**
A056394-082312-JMD-003 *081201960-0002A*	Mastic	Gray/Black Fibrous Homogeneous	2% Glass	98% Non-fibrous (other)	**None Detected**

Analyst(s)

Orlando J. Ivey II (4)

Chris Dojlidko, Laboratory Manager
or other approved signatory

Initial report from 08/29/2012 10:47:29

JMO

0821960

Asbestos Lab Services Chain of Custody

EMSL Order Number *(Lab Use Only)*:

EMSL ANALYTICAL, INC

Ann Arbor, MI
212 S. Wagner Rd.
Ann Arbor, MI 48103
PHONE: (734) 668-6810
FAX: (734) 668-8532

Company: Conestoga-Rovers & Associates	**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 200 W. Allegan Street Suite 300	
City/State/Zip: Plainwell, MI 49080	
Report To (Name): Jennifer Quigley	**Fax:** 269-685-5223
Telephone: 269-685-5181	**Email Address:** jquigley@craworld.com
Project Name/Number: 056394	
Please Provide Results: Email / **Purchase Order:** 056394	**State Samples Taken:** MI

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☑ 2 Week

**For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air ☐ Check if samples are from NY
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☑ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)
- Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group** **Filter Pore Size (Air Samples):** ☐ 0.8µm ☐ 0.45µm

Samplers Name: Jodie Dembowske **Samplers Signature:** Jodie Dembowske

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
A-056394-082312-JMD-002	floor tile w/ blue/tan paint		082312
A-056394-082312-JMD-003	floor tile tan		082312

Client Sample # (s): 002 - 003		**Total # of Samples:** 2	
Relinquished (Client): Jodie Dembowske	**Date:** 8/23/12	**Time:** 1200	
Received (Lab): [signature]	**Date:** 8/28/12	**Time:** 9:05am	

Comments/Special Instructions: Analyze all layers

FedEx

Controlled Document – Asbestos Lab Services COC – A1.0 – 11/23/2009